

FIRE PROTECTION SYSTEM

SCOPE OF WORK:

PROVIDE A FIRE PROTECTION SYSTEM INCLUDING SMOKE DETECTION SYSTEM AND WATER SPRINKLE SYSTEM, BOTH INTERCONNECTED TO PROVIDE ALARM AND PROTECTION IN THE AREAS SHOWN ON DRAWINGS.

THE SPRINKLE SYSTEM SHALL CONSISTS OF 165F SPRINKLE HEADS LOCATED IN THE AREAS SHOWN ON DRAWINGS AND SHALL INCLUDE ALL NECESSARY ACCESSORIES TO COMPRISE A COMPLETE SYSTEM. PROVIDE NECESSARY SIGNALING DEVICES, TO BE CONNECTED TO THE SMOKE DETECTION SYSTEM.

THE SMOKE DETECTION SYSTEM SHALL CONSIST OF SMOKE DETECTORS LOCATED IN THE AREA SHOWN ON DRAWINGS, ANNUNCIATING DEVICES AND PROVISION FOR REMOTE SIGNAL, SPRINKLE SYSTEM ALARM SIGNAL AND BATTERY EMERGENCY POWER. THE FIRE ALARM SYSTEM SHALL OPERATE IN A LOW VOLTAGE SYSTEM.

SCOPE OF WORK

2. SCOPE OF SERVICES

THE ARCHITECT-ENGINEER SHALL PERFORM ALL PROFESSIONAL SERVICES NECESSARY FOR PLANNING AND DESIGNING OF THIS PROJECT INCLUDING THE PREPARATION OF DRAWINGS, SPECIFICATIONS, DESIGN CALCULATIONS, COST ESTIMATES, AND ESTIMATED TIMES OF COMPLETION FOR INSTALLATION OF IT AND ITEMS ^{AS OBSERVED IN STATEMENT OF WORK} WITH SMOKE ALARM SYSTEM IN BUILDING

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THE ARCHITECT-ENGINEER SHALL INVESTIGATE ON SITE CONDITIONS AND MAKE SUCH INVESTIGATIONS AND

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EVALUATIONS AS NECESSARY FOR THE PROJECT TO BE DEVELOPED. THE ARCHITECT-ENGINEER SHALL CONSULT WITH THE ENGINEER TO OBTAIN RECORDS, DRAWINGS AS MAY BE AVAILABLE AND RESOLVE CRITERIA QUESTIONS AS NECESSARY. IT SHALL BE THE RESPONSIBILITY OF THE ARCHITECT-ENGINEER TO VERIFY ACCURACY OF ANY DATA OBTAINED. SECURITY REQUIREMENTS AS REQUIRED AT THE SITE WILL BE COMPLIED WITH. ALL SITE VISITS MUST BE INITIATED BY ADVISING THE ENGINEER OF THE DATE, TIME, & EXTENT OF WORK ANTICIPATED.

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2. STATEMENT OF WORK

1) Provide for a COMPLETE NEW ~~AREA~~ SMOKE DETECTION SYSTEM, IONIZATION TYPE, ~~INDEPENDENT~~ ~~RELIABLE~~ WITH AN AUDIBLE ALARM, THROUGHOUT BUILDING [REDACTED].

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2. Provide for a BATTERY OPERATION OF ENTIRE SYSTEM IN CASE OF POWER FAILURE.

3) Provide for SMOKE DETECTION IN MAIN AIR HANDLER RETURN AIR SYSTEM AND ATTACH EACH TO ALARM AS AN INDIVIDUAL ZONE WHICH MAY BE IDENTIFIED AT THE ANNUNCIATOR PANEL.

4) Provide for SHUT DOWN OF ALL AIR HANDLERS IN THE BUILDING SHOULD ANY SMOKE ALARM BE ACTIVATED.

5) Provide for AN ANNUNCIATOR PANEL WITH SUFFICIENT ZONES AND AT A LOCATION SUITABLE TO THE [REDACTED] ENGINEER, TO DIRECT FIRE SERVICE PERSONNEL TO

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5)
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FOLLOW 17m 6) PAGE 3)

- 7) ~~17m~~ PROVIDE AND INSTALL EYE WASH SHOWERS UNDER THE EMERGENCY SHOWER AND IN THE CAUSTIC ETCH AREA.
- 8) ~~17m~~ PROVIDE AND INSTALL FIRE DOORS, 1 1/2 HOURS, CLASS B, ^{WITH AUTOMATIC CLOSURE} IN THE FOLLOWING AREAS:
 - 1) BETWEEN THE OLD BOILING EQUIPMENT ROOM AND THE SHOP AREA
 - 2) TO REPLACE THE EXIT DOORS IN THE STAIRWELL IN THE ORIGINAL SECTION OF THE BUILDING
- 9) ~~17m~~ PROVIDE AND INSTALL SPRINKLER SYSTEM IN THE BUILDING WITH AT LEAST TWO RISTERS IN REMOTE STAIRWELLS THE INSTALLATION SHOULD BE IN ACCORDANCE WITH THE NATIONAL FIRE CODE STANDARDS FOR THE INSTALLATION OF SPRINKLER AND HOSE SYSTEMS.
- 10) PROVIDE AND INSTALL RATE OF RISE DETECTORS SUCH THAT THEY WILL BE INTEGRATED INTO THE SMOKE DETECTION SYSTEM IN SUCH LOCATIONS AS DEEMED NECESSARY BY ^{THE} SAFETY OFFICER, FOR EXAMPLE IN AN ~~EXHAUSTION~~ ROOM, boiler.

6 ~~th~~ Provide supervision on all lines, including audible alarm, ~~DETECTION~~ ~~SECTION~~, & remote signal circuitry.

3 SCHEDULE OF SUBMISSIONS

THE ARCHITECT-ENGINEER SHALL COMPLETE THE SERVICES REQUIRED AND SUBMIT THE DRAWINGS AND DOCUMENTS TO THE CONTRACTING OFFICERS WITHIN THE FOLLOWING SCHEDULE, EXCLUSIVE OF GOVERNMENT REVIEW TIME.

(A) FIRST SUBMISSION: (30%)
FOURTEEN CALENDAR DAYS AFTER NOTES TO PROCEED. SIX COPIES OF DRAWINGS, OUTLINE SPECIFICATIONS, DESIGN CALCULATIONS, AND PRELIMINARY COST ESTIMATE.

(B) SECOND SUBMISSION: (60%)
COMPLETE) TWENTY-ONE CALENDAR DAYS AFTER TRANSMITTAL OF GOVERNMENT'S COMMENTS ON FIRST SUBMISSION.

SAME NUMBER OF COPIES AS ABOVE

4
 (C) Final Submission: 100%
 Complete fourteen calendar days
 After transmission of Government's
 Comments on the second submission.
 Submission shall include:

- 1) Six copies of drawings
- 2) Complete set of originals
 signed and approved by A-G
- 3) Two sets of design calculations
- 4) Four typed pages of the specifications
- 5) Six copies of the specifications
- 6) Two copies of the cost estimate
- 7) All material loaned to A-G
 by the Government